

Listing of Claims:

1. (Currently Amended) A method of controlling a closed heating system for generating energy from heat by controlling a flow of a working medium through an expansion device included in the closed heating system which, in addition to the expansion device, also includes a condenser, a pump and a boiler, wherein the expansion device comprises a helical screw rotor expander that has an inlet port, and an outlet port connected to an inlet of the condenser, wherein the helical screw rotor expander comprises two helical co-acting rotors surrounded by a housing, said rotors together forming a plurality of V-shaped working chambers which, due to rotation of the rotors, travel in a direction from the inlet port towards the outlet port and continuously increase in volume at least during a part of said traveling, wherein the condenser comprises an outlet connected to an inlet of the pump, the pump comprises an outlet connected to an inlet of the boiler, and the boiler comprises an outlet connected to the inlet port of the helical screw rotor expander through an inlet line, and wherein the expansion device drives an energy producing device, the method comprising:

providing the helical screw rotor expander with an intermediate pressure port between the inlet port and the outlet port, wherein the intermediate pressure port communicates with

the helical screw rotor expander where a given V-shaped working chamber is increasing in volume and is closed from communication with both the inlet port and the outlet port, and wherein by connecting the intermediate pressure port is connected with the inlet line via a branch line between the intermediate pressure port and a branching point in the inlet line,

wherein a valve is included in the branch line, and the flow of the working medium through the valve to the intermediate pressure port is controlled as a function of a state parameter.

2. (Previously Presented) The method according to claim 1, further comprising using a pressure of the working medium as the state parameter.

3. (Previously Presented) The method according to claim 1, further comprising using a temperature of the working medium as the state parameter.

4. (Previously Presented) The method according to claim 1, further comprising using energy delivered by the expander as the state parameter.

5. (Previously Presented) The method according to claim 1, further comprising using energy delivered to the heating system as the state parameter.

6. (Currently Amended) A closed heating system for generating energy from heat including an arrangement for controlling a flow of a working medium through an expansion device included in the closed heating system, wherein the closed heating system further includes a condenser, a pump, a boiler, and requisite connection lines, wherein the expansion device includes a helical screw rotor expander that has an inlet port, and an outlet port connected to an inlet of the condenser, wherein the helical screw rotor expander comprises two helical co-acting rotors surrounded by a housing, said rotors together forming a plurality of V-shaped working chambers which, due to rotation of the rotors, travel in a direction from the inlet port towards the outlet port and continuously increase in volume at least during a part of said traveling, wherein the condenser comprises an outlet connected to an inlet of the pump, the pump comprises an outlet connected to an inlet of the boiler, and the boiler comprises an outlet connected to the inlet port of the helical screw rotor expander through an inlet line, and wherein the expansion device drives an energy producing device, and wherein:

the helical screw rotor expander includes an intermediate pressure port between the inlet port and the outlet port, wherein the intermediate pressure port communicates with the helical screw rotor expander where a given V-shaped working chamber is increasing in volume and is closed from communication with both the inlet port and the outlet port, and wherein a branch line connects the intermediate pressure port with the inlet line at a branching point, and a valve is provided in the branch line.

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7. (Previously Presented) The system according to claim 6, wherein the valve comprises a control valve.

8. (Previously Presented) The system according to claim 6, wherein the energy producing device comprises a generator.

9. (Previously Presented) The method according to claim 1, wherein the energy producing device comprises a generator.